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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,342	01/16/2001	Farrokh Abrishamkar	990369	5970
23696 . 75	590 07/16/2004		EXAM	INER
Qualcomm Inc	corporated		CHANG, I	RICHARD
Patents Department - 5775 Morehouse Drive			ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714			2663	ν
			DATE MAILED: 07/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
•	09/761,342	ABRISHAMKAR, FARROKH				
Office Action Summary	Examiner	Art Unit				
•	Richard Chang	2663				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) ⊠ Responsive to communication(s) filed on <u>06 April 2001</u> . 2a) □ This action is FINAL . 2b) ⊠ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 13-28 and 36-38 is/are allowed. 6) ☐ Claim(s) 1 and 29 is/are rejected. 7) ☐ Claim(s) 2-12 and 30-35 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 17 January 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	,					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

<u>Regarding to abstract</u>: The abstract of the disclosure is objected to because the length of the abstract is too long and over 150 words or 25 lines. Correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 and 29 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by US patent No. 6,711,413 ("Heidari").

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Regarding claim 1, Heidari teaches a system operable generally to paging of a receiving station in a cdma2000 cellular communication system (a system for interpreting a quick paging channel ... system) comprising the determiner 88 of the controller 86 of the mobile station 12 makes a determination of an operating characteristic of the communication system in which the mobile station is operable (first means for calculating ... quick paging channel is propagating), a determination is made based upon the determined operating parameter whether the mobile station should make use of the page indication bits, such as those transmitted on the F-QPCH (second means for calculating ... quick paging channel signal) and a selection is made based upon the operating parameter determined at the block 116(See Fig. 4) and of the previously-obtained quick-paging bit, of what action should be taken by the mobile station (third means for indicating ... on said primary paging channel); (See Fig. 3-4, Col. 9, lines 20 to Col. 10, lines 15).

Regarding claim 29, Heidari further teaches a system operable generally to paging of a receiving station in a cdma2000 cellular communication system (a system for interpreting a quick paging channel ... system) comprising of combined signals formed by the rake receiver are provided to an energy detector 74 are provided to a soft combiner 76 (first means for analyzing a received signal ... in response thereto) and the mobile station is provided with more control over the decoding of the page indication bits generated on a quick paging channel F-QPCH (second means for providing ... said one or more symbols); (See Fig. 3, Col. 6, lines 66 to Col. 7, lines 45).

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Allowable Subject Matter

4. Claims 2-12 and 30-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if no art rejection can be applied.

Examiner's Statement of Reasons for Allowance

- 5. Claims 13-28 and 36-38 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The prior art along or in combination fails to teach or make obvious the limitations that specifically comprises:

"first means for extracting pilot signal and a quick paging signal from a received signal, said quick paging signal having a slot with a first quick paging symbol and a second quick paging symbol" and

"second means for estimating pilot signal strengths associated with said first quick paging symbol and said second quick paging symbol" and

"third means for computing page energies and pilot energies associated with said first and second quick paging symbols" and

"fifth means for selectively activating said fourth means, based on said pilot signal strengths, said page energies, said pilot energies, said pilot signal, and said paging signal" as recited in the <u>independent claim 13</u>,

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"a demodulator and combiner for selectively combining said quick paging channel signal component and said pilot signal to yield a decision metric" and "a detector for providing an indication of the presence or absence of an immediately forthcoming page on a primary paging channel of said received signal based on said decision metric" as recited in the <u>independent claim 23</u>,

or

"fifth means for selectively combining said quick paging channel signal component and said pilot signal to yield a decision metric" and "sixth means providing an indication of the presence or absence of an immediately forthcoming page on a primary paging channel of said radio frequency signal received via said first means" and "seventh means for selectively employing said first means, said fourth means, and fifth means to process a subsequent page of a primary paging channel in response to said indication and establishing a traffic channel in response to the processing of said subsequent page" as recited in the *independent claim 26*,

or

"first means for receiving an electromagnetic signal and providing one or more decision parameters based on a quality of a signal environment through which said received signal propagates and/or based on a value of a first symbol and/or a second symbol of a quick paging channel signal component of said received signal in response to the receipt of said electromagnetic signal" and

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"second means for selectively comparing said one or more decision parameters associated with a first quick paging channel symbol and/or a second paging channel symbol to one or more corresponding predetermined thresholds in response to said control signal and providing a first indication in response thereto, said first indication indicative of whether said forthcoming paging channel should be received and processed" as recited in the *independent claim 27*.

or

"computing a second decision parameter based on a combination of said quick paging channel signal and said pilot signal based on and energies associated with said pilot signal and said quick paging channel signal" and "indicating, based on said first decision parameter and said second decision parameter, the presence or absence of an immediately forthcoming page message on said primary paging channel" as recited in the <u>independent claim 28</u>,

or

"a collecting/passing control part ... adding an own node ID when a flag provided in said topology data indicates to collect connection information, but causing said topology data to pass through the own apparatus when said flag indicates not to collect the connection information" and

"a quick paging channel symbol combiner in communication with said pilot estimation circuit, said total received energy computation circuit, and said receiver" and "a page detector in communication with said quick paging channel symbol combiner" as recited in the *independent claim 36*.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is 703-605-4398. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T Nguyen can be reached on 703-308-5340. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard Chang Patent Examiner Art Unit 2663

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